

Sounds impressive...

How do we duplicate the 6000 or so cassettes we send out each month? Rose just doesn't sleep! Really, the programs are read off a disk and sent through a line amplifier to 30 cassette recorders hooked up in parallel. The recorders are controlled by a Color Computer through the microphone jack. The 'random' clicking of 30 buttons lets us know that the tapes are done and that it's time to put in some blank ones. A heck of a way to make a living...



P.O. Box 1087,
Santa Barbara, CA 93102
(805) 963-1066

April 1983

```
*****
*
*  Filename      English Translation      PMODE PCLEAR      Locations
*
*  TARTCOV       Tartan Cover             3      4      4/148  4/161
*  FOOL          April Fool               (2)    (4)    19/159 21/173
*  RESCUINS      Rescue Instructions       4      (4)    32/169 35/184
*  RESCUE        Rescue                   4      (4)    48/181 52/197
*  VARMAP        Varmap                   0      1      72/199 78/217
*  FILES         Files (disk only)         0      1      93/216 101/235
*  *ASTBLAST     Astroblast                4      4     116/234 126/255
*  PENIPEDE      Pennypede (CLOADM:EXEC)   (2)    (4)    135/250 147/272
*
*  Locations are for R/S recorders.  If the first copy of a program
*  won't load, try the second.  If neither copy loads, return the tape
*  for disciplining and a prompt replacement.  If you get an OM, FC,
*  or SN error while loading or running a program, you probably have
*  to enter the PMODE and PCLEAR values for the program directly from
*  the keyboard.  (Values in parenthesis are not set in the program).
*  * These programs may use high speed.  Be sure that the computer is
*  slowed down again before doing I/O to tape or disk (POKE 65494,0).
*
*****
```

Put a blanket on it - Tartan Cover (by R.W. Odlin) does a cross-weave pattern on your screen.

CoCo as Mr. Personality - Run April Fool (by George Ziniewicz) then try to regain control of your computer. .

Baby trouble - Using the joystick to move and the red button to climb, you must avoid the nasties to Rescue (by Henry Schroy) the baby. Read Rescue Instructions for the whole scoop. Note - Hold down the red button on the joystick to begin the game.

Where are the vars? Varmap (by Bill Drew) can tell you what variables are used in your BASIC program and what lines they are used in. First, you must save your BASIC program on tape or disk in ASCII format (ie: CSAVE"filename",A or SAVE"filename",A). Then load and run Varmap. Varmap will read your program, list it, and give you a 'map' of the variables. Bonus Feature: You can also see where a certain reserved word (ie: PRINT, OPEN, RUN, DEF, etc.) is used in your BASIC program by deleting the particular reserved word from the DATA statements in lines 1680 through 1700. This tricks Varmap into thinking that the reserved word is a variable.

Note: If you have 32k you may wish to increase the CLEAR 6000 statement in line 70 and the DIM VM\$(100,1) in line 130 to CLEAR 8000 and DIM VM\$(200,1) so larger programs can be mapped.

Disk users - Keep track of anything with Files (by Richard Hewko). a simplified database program.

Let's say that you want to have a list of your creditors (hopefully a short list). Run Files and choose the menu option "Create a New File." You will be asked for a disk filename and a filename. Choose CREDITOR for your disk name and MY CREDITORS as the name of your file. Now CREDITOR/DAT and CREDITOR/I (a sorted index to the CREDITOR/DAT file) are created on your disk. Then you will be asked for the number of fields. You might need 6 fields (with the associated field types):

Last name, First name	(string - length 25)
Address	(string - length 25)
City, State, Zip	(string - length 25)
Money owed	(money)
Payment priority 1-10	(byte)
Payment date	(date)

So you ask for 6 fields and, when asked, give the field type of each field as above. Finally, CREDITOR/DT will be created on your disk (to hold the list of your creditors). Now, anytime you run Files with this disk in drive one, one of the menu options will be the CREDITOR file!

What can you do with this file? Below is a list of the commands:

- Add: add a record
- Delete: delete or undelete a record
- Edit: edit a record
- Find: find records with fields in defined boundaries
- List: list records to screen or printer in format (can do labels)
- Off: back to the main menu
- Print: print current record to printer
- Reset: sort records by FIRST field
- Search: search for a record by FIRST field
- Zero: zeros specified numeric fields
- Right arrow: next record
- Left arrow: previous record
- Up arrow: forward 10 records
- Down arrow: backward 10 records
- @: current record

Files notes: If you accidentally <break> out of the program, you can usually jump back into it without losing any data by typing GOTO 1000<enter>. If you forget the above commands while in the program, hitting an incorrect command will give you a list of the acceptable ones.

The ships are stacked against you - In Astroblast (by Crew Reynolds) columns of ships form above you. These ships then drop and fire at you unless you move out of their way (using the arrow keys) or shoot them first (by hitting the spacebar). If they hit the ground, they sit there in your way for a while. If you are hit, there is a delay before your new ship can fire.

Astroblast notes: 1) The game will NOT work if you have a disk system hooked up. 2) There is a high speed option - If you play it in high speed, be sure to slow CoCo back down when you are through playing the game (POKE 65494,0).

Your 2 cents worth - Pennypede is a poor-man's version of the famous arcade game. Using the arrow keys to move and the spacebar to fire, you try to hit the 'pede as it slithers and breaks up on the screen. But watch out for the spiders! The game is in machine language, so to load it type CLOADM*PENIPEDE*<enter>. Then type EXEC<enter> to run. To make a backup of the program, load it in, get a tape (or disk) ready, and

type CSAVEM"PENIPEDE",3584,6416,3584<enter> (use SAVEM to put a copy on disk).

It's just a bit late...

Many of you mentioned last month's Tax Helper had a couple of bugs in it that might have made your tax bill seem smaller than it should have been (a feature if not caught by the IRS...). Since this program has now been debugged (with these fixes), we will publish it again early (!) next year (with modified tax tables) so that you will really be able to use it. However, to set the record straight, here are the fixes:

Take out the +CI in line 1250 (so car interest is only added once).

Change the T(3) to TX(3) in line 3315 and the TX(1) in line 3360 to TX(3). Now income averaging will be correct.

On a 16k machine, if certain schedules were used³, the program ran out of memory. So BEFORE loading the program, type POKE25,6:NEW<enter>.

We want results...

Mike Vincenti of Logan, Illinois noticed that exact scores of 400, 550, or 600 in last month's Utopian would not print results. So he changed the > (greater than) signs in lines 264, 265, and 266 to >= (greater than or equal) signs.

You learn somethin' every day...

Last month I said that there was a bug in February's Disk Aid. It seemed obvious to me that the length of a machine language file in the Super Directory was too long since it was 9 bytes longer than the end address-start address. Wrong! The author, Richard Melucci, called to tell me that the length was correct in the version we published since there are 9 extra bytes in a disk file that contain the file's loading info. Do not make the change in line 312 mentioned in last month's sheets.

However, R.W. Odlin of Sedro-Woolley, Washington added a couple of error traps to the Recover Killed File section of Disk Aid:

Change FO\$=FL\$ in line 1710 to IFFL\$=""THENCLS:GOTO1710ELSEFO\$=FL\$.

Change the ELSE1760 in line 1730 to :GOTO1760ELSE1760.

Bomb the disk...

Make February 1982's ABM run on disk by simply changing the CLEAR 500,16383 to CLEAR 500 in line 6.

Looking to the heavens...

Stephen Stone of Auburn, Washington made a mod to February 1983's Stellar Empire which prints the number of ships you have at a star on the map (instead of the yellow graphics block). A '+' is printed if over 9 ships are there:

```
570 X$=X$+CHR$(I+65):IFS(I,3)<>PTHEHC=255ELSESEC=48+S(I 4):IFC>57THENC=43
```

Colorful loading...

Michael Kromeke of Albuquerque, New Mexico sent in this routine to allow you to 'see' and hear the first 6144 bytes of a program load in from tape:

Type PCLEAR4:PMODE3:PCLS:POKE25,PEEK(188):NEW<enter>

Type 10 AUDIO ON:SCREEN1,0:CLOAD<enter>.

Type RUN<enter> to load the program.

To be on the safe side, type PCLEAR4:PMODE2<enter> after the program is through loading.

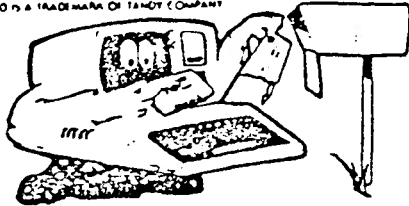
There's a hole in the bucket...

What's this? We bow down to pressure? Never! Except in the case where you asked for 3-hole punched papers. Next you'll be wanting a disk version of Chromasette (how about starting in July?).

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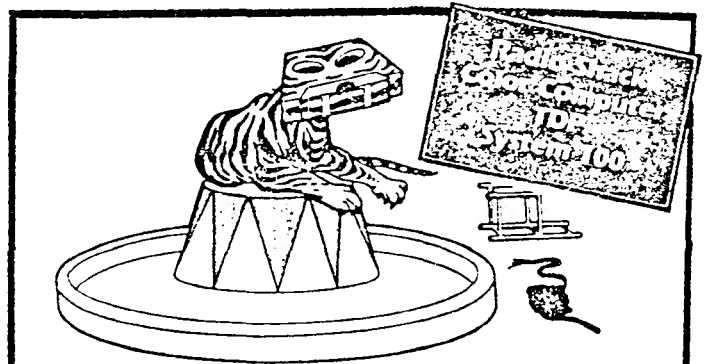
Holes in my head,

Dave

ed.

RAINBOWfest
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Contact the Rainbow for information



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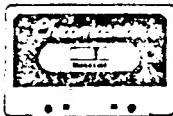
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The Fine Print: All issues from July 1981 available — ask for list. Programs are for the Extended BASIC model and occasionally for disks



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